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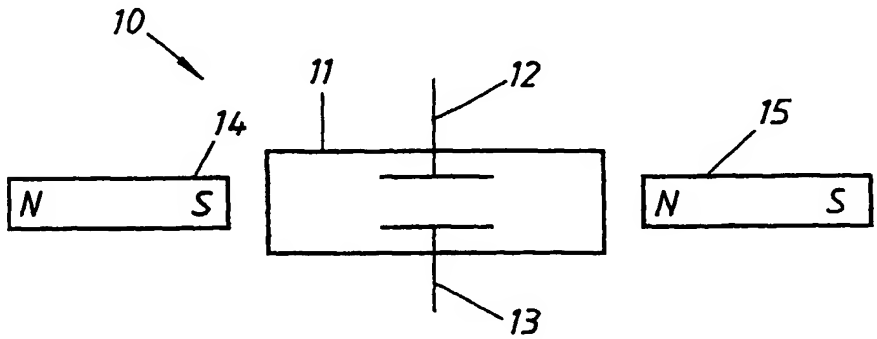
(54) Title: NEW MOTION SENSOR



(57) Abstract: The invention relates to an implantable motion sensor for measuring a patient's activity level comprising a fluid-tight, bio-compatible housing, a plurality of electrodes being coupled to the housing, the housing comprising a fluid that the fluid comprises at least one anisotropic molecule, the anisotropic properties of which are changed in relation to the motion of the fluid, whereby the state of the anisotropic molecules of the fluid is detectable by the electrodes. Hereby, the only moving part of the sensor is the anisotropic fluid. Hence, the sensor can be made very small. Furthermore, the invention relates to an implantable cardiac pacemaker comprising the motion sensor of the invention.

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